TOYOTA

GIBRALTAR STOCKHOLDINGS LTD

Agents for
Toyota Motor Europe NV/SA

AMBULANCE CONVERSIONS

TGS is recognised for providing aid and humanitarian agencies worldwide with top quality Ambulance Conversions.

Our fully trained and qualified in-house team of technicians, in addition to our 20+ years experience in this field, allow us to fully translate our customer's needs and specifications to suit each and every conversion whilst in turn providing value for money solutions backed up by Toyota Warranty and a reliable After Sales Service. In our dedicated facilities our team can produce ambulances with a very quick turnaround time. When large orders arrive a second workshop is then put into service to increase production and reduce lead times.

A M B U L A N C E
DIVISION

T G S S T R E N G T H S

Committed to providing a fast turnaround at the most competitive prices.
In-house facilities and workshops with fully trained and qualified in-house technicians.
Shipping to over 100 countries worldwide.
Delivered ready for immediate deployment.
Proven track record; 500+ ambulance conversions delivered over the last 2 years.
Tailor-made customer service and value for money.

CHOOSING YOUR VEHICLE PLATFORM

Both models are available in LHD and RHD

LAND CRUISER

4x4

78 Series Hardtop

The ideal base model if you intend to use your ambulance in off-road rural environments. There is ample space in the rear compartment for both primary and secondary stretchers, as well as an attendent seat and all the essential equipment your first response vehicle will require. It goes without saying that the Land Cruiser 70 Series is the benchmark for off-road vehicles in all developing countries.

Used extensively throughout the aid world for many years the Land Cruiser HZJ78 comes with reliability and durability as standard.

HIACE

4x2

Commuter Bus

The Hiace is renowned for being able to cope with third world conditions. When the rear seats are removed, there is ample room for a stretcher and other key ambulance accessories. The Hiace is the perfect vehicle for urban usage where tarmac and dirt roads are the norm. With its enviable Toyota reputation for reliability, the Hiace has proved to be a success in many markets. This makes it the ideal model for conversions into either ambulances or for other uses such as mobile clinics and blood donor centres.

STANDARD ESSENTIALS

fitted both on the 78 Series Hardtop and the Hiace

The following represents our recommended standard essential list of equipment when considering an ambulance to be used to administer first aid before the transferral of patients to primary healthcare centres.

All these options are sourced by TGS from the major manufacturers of this type of equipment and are extensively tested by TGS before offering to customers.

There is a continual process of reviewing and upgrading these options as both new products or manufacturers arrive on the market. TGS is striving to provide the highest quality options which represent the best value for money.

1 Wipe-clean interior panels, partition and flooring

Inside an ambulance, prime consideration must be given to hygiene. The wipe-clean interior panelling including partition with a window takes the vinyl floor option one step further.

The standard vehicle panelling in the patient compartment is removed and replaced with 3mm vinyl PVC material, making the whole patient compartment easier to clean and gives it a more clinical aspect. A partition to separate the driver from the patient compartment is installed and a high-quality clear sliding window is incorporated to provide ease of communication between the driver and personnel in the rear cabin. The sliding window also allows the driver to see when reversing and through the rear view mirror when driving.

In order to improve ventilation in the rear cabin of our Land Cruiser Hardtop ambulances, these now include additional ventilation taken from the vehicle's existing heating/air-conditioning system. The rear ambulance compartment can also have an additional independent air conditioning unit fitted if requested.

2 Primary stretcher

This wheeled stretcher features an adjustable backrest with five positions and four swivel wheels. It is made of a sturdy one inch anodised aluminium tubing frame which makes it lightweight (10kg) and easy to manoeuvre. The cover is made from tough green vinyl coated nylon that is easily wiped clean and also fungus and rot resistant. It features patient restraint straps with automotive seatbelt type buckles as standard.

Dimensions: length: 188cm x width: 52cm x height: 23cm

The installation includes a split locking device for extra patient safety.

3 Contour mattress

The contour mattress enhances patient comfort on the stretcher. It is also easy to clean. In conjunction with the foldable stretcher this mattress places the client in a suitable position to obtain assistance from the ambulance paramedic.

4 Ceiling mounted IV track

Fitted on the ceiling in the ambulance compartment, it provides two sliding bottle hooks above the main stretcher to enable the paramedic to secure IV (intravenous) solutions. We also offer the possibility to fit an extra two tracks.

5 Attendant seat

Original rear left hand seat which is optimally positioned to enable the paramedic to comfortably monitor the patient lying in the stretcher.

6 First aid kit

This is a multi-purpose first aid kit packed in a case and including a bracket for wall mounting.

This kit includes a comprehensive list of contents to cover a wide range of incidents.

1 x Assorted airstrip plasters (pack of 10)
1 x Cleansing wipes (pack of 10)
1 x Conforming bandage (8cm x 4cm)
1 x Dressing strip (6.3cm x 15cm)
1 x First aid guidance card
1 x Large sterile wound dressing (13cm x 9cm)
1 x Personal protection (pack of 2)
1 x Tough cut scissors
1 x Sterile cotton wool (15g)
1 x Sterile eye pad with bandage (8cm x 6cm)
1 x Safety pins (pack of 6)
1 x Windscreen first aid sticker
2 x Ambulance dressing pad (8cm x 7cm)
2 x Calico triangular bandage (127cm x 90cm)
2 x Medium sterile wound dressing (10cm x 8cm)
2 x Sterile dressing pad (10cm x 10cm)

More comprehensive versions can be supplied if required.

7 Transit safety box

To help deter theft in transit, this is recommended to store any items that could be stolen whilst the vehicle is in transit along with items of medical equipment.

Once packed, the box is secured with a padlock and chained inside the vehicle.

8 Tinted windows

This special window film will help reduce heat and glare from the sun, block 99% of harmful UV rays, reduce fading to the interior of your ambulance and provide interior privacy from prying eyes.

Another option if required is a frosted film popular with many clients.

9 Interior lighting

Visibility in the rear cabin is essential. We install four additional interior lights for enhanced cabin illumination.

These are operated by an easily accessible switch at the rear of the vehicle and adjacent to the attendant seat.

10 Rear power sockets

A second 12V power socket conveniently positioned in the rear of the ambulance compartment.

This can be used to operate and charge a wide range of medical equipment.

11 PA system with siren

This system includes a public address system, 4-tone siren and a 50W speaker.

It is the dual function of this compact product that has made it so popular with our customers. The amplifier is small and can be fitted discreetly. The four tones are controlled by a switch in the handheld remote microphone.

12 Ambulance identification stickers

A wide choice of high quality vinyl decals are available on request.

TGS has a long experience of producing vehicle stickers to customer's exact specifications.

13 Blue rotating beacon

Fitted with a 55W halogen bulb this rotating lens beacon is permanently fixed onto the roof of the vehicle. It serves as a visual aid, warning others when your ambulance is approaching.

Available in blue or red.

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FIRST AID

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Stretcher split locking device

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Interior of the Hardtop ambulance

EXTRAS

fitted both on the 78 Series Hardtop and the Hiace

In addition to our standard essential list of accessories, we further recommend the following list of options which will help you meet your specific requirements.

1 Main stretcher complete with restraints and mattress

As an alternative to the primary stretcher included in our 'Standard Essential List' we can further provide a telescopic stretcher which is easy to use and built tough for years of reliable service. The adjustable backrest can be easily locked in any of eight positions, up to an angle of 76 degrees, providing increased comfort to the recumbent patient. Swivel wheels allow smooth and swift movement in any direction. Two of the wheels include foot brakes for added safety. Knee contour position can be adjusted by turning the winding handle.

Dimensions raised: length: 239cm x width: 53cm x height: 41cm
Dimensions lowered: length: 239cm x width: 53cm x height: 11cm

2 Ventilator and extractor fan

This dual function option is fitted onto the roof and controlled via a switch adjacent to the attendant seat with easy access for the ambulance staff. The exterior cover is painted white to match the colour of the vehicle and aerodynamically designed for minimum wind resistance.

It can be used to extract unwanted odours and hot temperatures from the patient compartment and also can be reversed in order to bring in fresh air from outside.

3 Oxygen pipeline with Cylinder and 2 outlets

Designed exclusively for our 78 Series Hardtop and the Hiace, the fitted oxygen pipeline consists of:

Aluminium "E" size pin index oxygen cylinder.
A pin index oxygen regulator.
An oxygen variflow selector valve with male oxygen probe (0-15 litres/ min).
Oxygen tubing fitted to the vehicle with 2 oxygen outlet (Schrader) sockets.
One oxygen therapy tube.
One oxygen therapy mask.

The two oxygen Schrader sockets provide the female connection for the variflow selector valve and PneuPacs range of ventilators/resuscitators such as the Responder model 2R, which is frequently chosen by our clients.

4 Metal locker

This cabinet with 3 lockable drawers is manufactured in high quality powder coated steel. It is ideal for organising and storing equipment.

5 Patient light

Its clear diffuser lens offers powerful glare-free illumination essential for the administration of first aid inside the ambulance. It's pendant mounting flexible arm length of 500mm provides you with light where you need it. This model is for a permanent fixing onto the vehicle and supplied with a 12V, 5W bulb.

6 Medical suction unit

This OB2012 medical suction pump is powerful, compact and easy to use. It features adjustable suction with control manometer from 0 to >800mbar and a 1000ml autoclavable jar for secretion collection. The autonomy of the unit is about 45 minutes and also operates directly through the 12V power socket of the vehicle. This unit is supplied with a wall bracket anchorage system which integrates the recharging system.

7 Map light

A high intensity, glare-free light that is perfect for the drivers' reading. This model is for permanent fixing onto the vehicle, has a 195mm flexible fitting, supplied with a 12V, 5W bulb.

8 Remote control alarm

This LaserLine alarm once activated offers full protection for all doors, bonnet and the boot. Any movement inside the vehicle interior is detected by means of the ultrasonic sensors. Any interference with the vehicle will cause the indicators to flash, activate a 126 decibel siren and totally immobilise the vehicle by switching off the electrical power from the starter motor and ignition switch.

This alarm is easily activated and deactivated by remote control unit or by the coded keys provided.

9 Duo-folding stretcher

The easy-fold aluminium pole stretcher is lightweight, easy to set up and compact.
Its cover is made of durable vinyl coated nylon.
It is mainly used as a secondary stretcher.

10 Second battery

With the extra electrical equipment fitted such as roof ventilator, interior lights and medical equipment there is going to be an increased demand for electrical power from the battery.

To assist in supplying this extra power we often recommend to fit a second battery to the vehicle.

Mounted under the bonnet in a specially designed cradle the battery is wired into the vehicles electrical system using a "smart start charging controller".

This system will monitor both batteries and ensure that each receives the required charge to obtain optimum performance and long life.

The batteries are also wired so that during the cranking of the engine both batteries are combined to give maximum power which can be useful for cold starting.

11 Blue light bar

The Maxim 90 blue light bar is not only stylish and aerodynamic but robust too. Its base and top is made of strong aluminium and the lenses are UV stabilised polycarbonate injection moulded.

The centre "AMBULANCE" section light is controlled by the vehicle's headlight switches whereas the halogen lights on both sides are separately controlled via a switch mounted on the dashboard.

Also available upon request an amber light bar.

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Ceiling mounted IV track

interior lighting

Fire extinguisher

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Frosted film applied on rear windows for privacy

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Attendant seats

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1

Stretcher split locking device

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Interior of the Hiace ambulance

EXTRAS

fitted both on the 78 Series Hardtop and the Hiace

12 Twin suction pump

A portable, fast and effective, manual suction pump with an impressive 600mm Hg suction capacity.

Holds approx 1000ml, however pumping can continue even when the contents start to overflow. In emergency situations the capacity is without limit.

It allows a free airflow of 70 litres/min or 250ml of thick fluid to be sucked up in about two seconds.

The special double chamber pump design means that no vacuum build-up time is wasted and the suction is continuous.

The small bore suction tip can easily be removed to enable instant use of the large, 10mm suction tip for increased speed of suction and to remove larger solid particles.

13 Portable oxygen therapy kit

This kit is secured inside the patient cabin by means of a bottle holder which features a quick-release strap. This kit consists of:

Aluminium "D" size pin index oxygen cylinder
- light weight and easy to carry.
Pin index oxygen regulator with an oxygen schrader socket
- compatible with most commonly used cylinder system.
Flow selector valve (0-15 litres/min) with standard connector.
One oxygen therapy tube.
One oxygen therapy mask.
Carry bag - complete system protected in rugged easy to carry bag.

It is lightweight and compact and the pin index connections allow quick replacement of cylinders.

The socket has been incorporated into the regulator to allow for compatibility with ventilators/resuscitators.

14 Ventilator

This ventilator is simple, safe and portable. It is a lightweight palm sized unit, ideal for managing airway respiratory emergencies in any location. Quick to setup and easy to use, it's robust design gives the user peace of mind that it will operate equally well in a tropical rainstorm or desert sandstorm.

It is the first choice for resuscitation and provides controlled ventilation when administering oxygen to your casualty. The fitted oxygen pipeline system will provide the suitable oxygen sockets to connect this ventilator.

15 Automated defibrillator

The automated external defibrillator (AED) is simple to use, one button for switching the unit on and for analysing, the other orange illuminated button for delivering the shock.

The clear English accented voice prompts should be followed along with text messages on the LCD screen.

The AED can deliver up to 200 shocks from its non-rechargeable Lithium battery (5 year standby). The plug-in memory card is capable of recording upto 500 events, 30 minutes of ECG and 30 minutes of sound. The data can be transferred to a PC or laptop using a card reader software. User manual is included.

16 Pulse oximeter

The hand-held pulse oximeter quickly and reliably delivers accurate pulse oximetry wherever spot checking is needed. It is durable and lightweight and its ergonomic design makes it a comfortable fit in your hand. It also features a bright and easy to read LED display.

Stores data for up to 99 different patients. The sensor supplied is suitable for adults and for children over 20kg.

It is powered by 3 x C-cell batteries that last approx 24 hours in continuous use, or 1500 spot checks and has an auto shut-off function to conserve battery life.

17 Hand wash sink unit

A compact hand wash unit that provides hygiene in regions where mains water or electric power supply is scarce.

It has a water capacity of 3.9 litres and uses the vehicles electrical system to heat up the water. The unit provides four to six hand washes from each filling and the temperature is thermostatically controlled.

With so many possibilities available,
we want to help you choose the right
product for your needs and get the very
best services and advice available.
We offer flexibility and choice.

Some of the most popular items have been highlighted in this publication;
however there are many other accessories and options that can be fitted to our ambulances.
For a full list and detailed information please visit our website.

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